

**AMENDMENTS TO THE CLAIMS**

**Claims 1-15 (Canceled)**

**Claim 16 (Currently Amended)** A data processing system, comprising:

a first data processing unit operable to perform data processing according to a program control;

a plurality of at least two second data processing units, each of said second data processing units being operable to perform data processing according to a wired logic control, and each of said plurality of second processing units comprising:

a calculating unit; and

a selector unit;

a storage unit operable to store data;

a first data transfer unit operable to connect said first data processing unit with each of said plurality of second data processing units, via said storage unit; and

a second data transfer unit operable to connect each of said plurality of second data processing units,

wherein said selector unit is operable to determine a destination of a data transfer from among each of said plurality of second data processing units, according to a link map table.

**Claim 17 (Previously Presented)** The data processing system according to Claim 16, wherein said first data processing unit is operable to control the data transfer via said second data transfer unit.

**Claim 18 (Previously Presented)** The data processing system according to claim 16, further comprising a first data transfer control unit operable to control the data transfer via said second data transfer unit.

**Claim 19 (Previously Presented)** The data processing system according to Claim 16, wherein said second data processing unit is operable to perform an encoding process.